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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/064,613	07/31/2002	Hsu-Pin Kao	8860-US-PA	6858

31561 7590 07/09/2004

JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE  
7 FLOOR-1, NO. 100  
ROOSEVELT ROAD, SECTION 2  
TAIPEI, 100  
TAIWAN

EXAMINER

LEWIS, DAVID LEE

ART UNIT	PAPER NUMBER
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2673

DATE MAILED: 07/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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## Office Action Summary

Application No.

10/064,613

Applicant(s)

KAO ET AL.

Examiner

David L Lewis

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 31 July 2002.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. **Claims 1, 4-7, 9, 11, and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Ishida et al. (6069609).**
2. **As in claim 1, Ishida et al. teaches of a color adjustment device for a plasma display panel, figure 11 item 21, column 11 lines 14-20, comprising: a look up table, wherein the look up table stores a plurality of gray scale data, selects a data from the plurality of gray scale data according to a received gray scale input value, then outputs the selected gray scale data, figure 10A item 12 and 13, figure 11 item 2, column 10 lines 35-60, column 12 lines 55-65, wherein said adder serves as the functional equivalent to said lookup table adding dither pattern as is known; and an error diffusion circuit, receiving the gray scale data output from the look up table to perform an error adjustment, figure 11 item 24. Wherein input signals RGB are added to by adder/lookup table 2 with dither pattern info, and sent to error distribution unit 24.**

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3. **As in claim 4, Ishida et al. teaches of a color adjustment method for a plasma display panel, comprising the steps of: receiving a gray scale input value that is within a first range, figure 11 items RGB, column 11 lines 25-35; converting the gray scale input value into a gray scale data that is greater than the gray scale input value, moreover the gray scale data is within a second range, figure 10A item 12 and 13, figure 11 item 2, column 10 lines 35-60, column 12 lines 55-65, wherein said adder serves as the functional equivalent to said lookup table adding dither pattern as is known; and displaying the gray scale data as a brightness that is within a third range by using an error diffusion method, wherein the number of integers in the third range is less than the number of integers in the second range, figure 11 item 24 and 21, column 11 lines 14-55.**
4. As in claim 5, Ishida et al. teaches of, wherein the step of converting the gray scale input value into the gray scale data further comprises: adding the gray scale input value to a predetermined value to obtain the gray scale data, figure 13 item OP1, column 11 lines 45-55.
5. As in claim 6, Ishida et al. teaches of, wherein the step of converting the gray scale input value into the gray scale data further comprises: providing a look up table, querying the gray scale data that corresponds to the gray scale input value from the look up table, figure 10A item 12 and 13, figure 11 item 2 and 23, column 10 lines 35-60, column 12 lines 55-65, wherein said adder serves as the functional equivalent to said lookup table adding dither pattern as is known.

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6. As in claim 7, Ishida et al. teaches of, wherein a maximum integer of the third range is an integer portion of a quotient from a maximum integer of the second range divided by a predetermined value, figure 13, column 12 lines 1-25.
7. **As in claim 9, Ishida et al.** teaches of a color adjustment method for a plasma display panel, comprising the steps of: receiving a gray scale input value that is an integer, **figure 11 items RGB (8bitsx3), column 11 lines 25-35**; converting the gray scale input value into a corresponding gray scale data, **figure 10A item 12 and 13, figure 11 item 2, column 10 lines 35-60, column 12 lines 55-65**, wherein said adder serves as the functional equivalent to said lookup table adding dither pattern as is known; and adjusting a brightness display according to the gray scale data, **figure 11 item 23**; wherein, the gray scale input value has a one-to-one corresponding relationship to the gray scale data, moreover if a range that gray scale data appears in comprises N integers and a brightness range to be adjusted comprises M integers, then  $N > M$ , column 11 lines 45-67, **column 12 lines 55-65**. Wherein as shown in figure 13, N is 8 and M is 7, therefore  $N > M$ .
8. As in claim 11, **Ishida et al.** teaches of, wherein the gray scale data is obtained from adding the gray scale input value to a first predetermined value, figure 11 item 2 and 23, column 12 lines 55-67, wherein item 2 is equivalent to adder 12.

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9. As in claim 12, **Ishida et al.** teaches of, wherein the gray scale data is obtained from a query to a look up table according to the gray scale input value, figure 11 item 2 and 23, column 12 lines 55-67, wherein said query is to based on data from said dither generator.

### ***Allowable Subject Matter***

10. Claims 2, 3, 8, 10, and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. **Wherein** the specific limitations of said error diffusion circuit, figure 1 item 120, comprising said adding, multiplying, subtracting, and dividing of gray scale data is not found in the prior art of record in any combination including the other limitation of the claims.

### ***Conclusion***

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. 2002/0067510, 6473091, 6671068, 2003/0231148, 6069610, 2002/0027566, 2002/0015010, 6486859, 6088009, 2002/0135595.

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12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **David L. Lewis** whose telephone number is **(703) 306-3026**. The examiner can normally be reached on MT and THF from 8 to 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala, can be reached on (703) 305-4938. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:**

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

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June 28, 2004

  
**KENT CHANG**  
**PRIMARY EXAMINER**